



Einladung

zu dem am Donnerstag, 15. Mai 2025, **14:00 Uhr**
im Kurt-Alder-Hörsaal
Chemische Institute, Greinstraße 4-6, 50939 Köln

stattfindenden öffentlichen

wissenschaftlichen Habilitationsvortrag
Physikalisches Institut II (Fach Experimentalphysik)

von

Dr. Evgeny Mashkovich

über das Thema

Holography: Principles and Applications

In this lecture, an overview of holography, a technique that enables the recording and reproduction of three-dimensional images, is provided. It starts with the fundamental principles of holography and explores its diverse applications. The core physics of light interference and diffraction that make holography possible are explained. Key advancements in the field, including digital and phase-shifting holography, are also covered. Additionally, examples of holograms used in everyday life, such as Benton (Rainbow) holograms commonly used to secure currencies, IDs, and bank cards, are presented. Finally, recent advances in 3D displays and holographic projections are discussed.

Prof. Georg Bareth
Dekan